(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 30 September 2004 (30.09.2004)

PCT

(10) International Publication Number WO 2004/083109 A1

(51) International Patent Classification⁷:

B81B 1/00

(21) International Application Number:

PCT/SE2004/000441

(22) International Filing Date: 23 March 2004 (23.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23 March 2003 (23.03.2003) S

0300822-4 23 60/466,250 2

23 March 2003 (23.03.2003) SE 29 April 2003 (29.04.2003) US

- (71) Applicant (for all designated States except US): GYROS AB [SE/SE]; Uppsala Science Park, Uppsala, S-751 83 Sweden (SE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): INGANÄS, Mats [SE/SE]; Lapplandsresan 14, S-757 55 Uppsala (SE).
- (74) Agent: BERGANDER, Håkan; Gyros AB, Uppsala Science Park, S-751 83 Uppsala (SE).

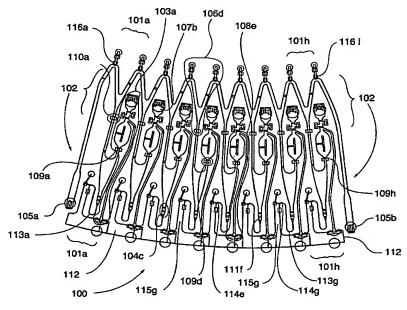
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: A COLLECTION OF MICRO SCALE DEVICES



(57) Abstract: A collection of one or more microfluidic devices which together carry a plurality of microchannel structures each of which comprises a reaction microcavity (104a-h) in which there is a solid phase with an immobilized affinity ligand L, characterized in that (i) the plurality is divided into sets of microchannel structures, and (ii) the affinity ligand L is directed to the same counterpart (binder, B) independent of set, and (iii) the sets differ in a) the capacity per reaction microcavity and/or the capacity/unit volume of the solid phase in a reaction microcavity for binder B, and/or b) the base matrix of the solid phase between the sets but are equal within each set.



Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.